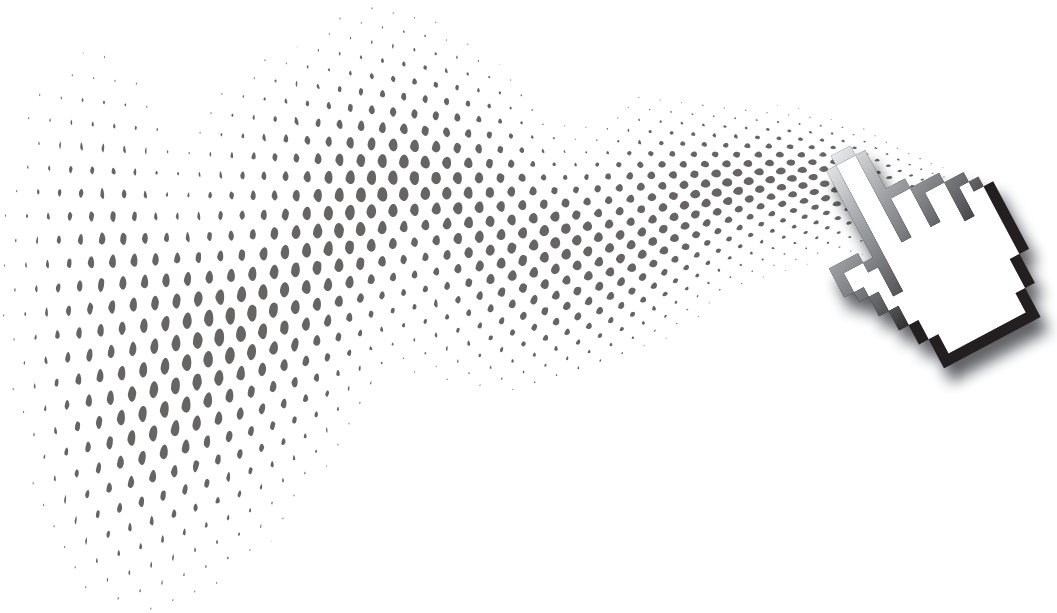
User's Manual

Interactive Electronic Board



CAUTION

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This User's Manual includes detailed usage instructions for your product. Please read this manual thoroughly.
- Figures and illustrations in this User Manual are provided for reference only and may differ from actual equipment appearance. Equipment design and specifications may be changed without notice.

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Important Safety Instructions

Always comply with the following precautions and usage tips to avoid dangerous situations and ensure peak performance of your product.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

WARNING

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

CAUTION

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.

- Do not cover the slots and openings with a cloth or other materials.
- Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
- Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.

Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.

Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.

Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.

Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.

This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.

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Do not exceed the standard capacity of a multi-plug or power outlet extension when using it for the product.
- There is a danger of electric shock of fire hazard.

To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.

Never insert anything metallic into the open parts of this apparatus.
Doing so many create a danger of electric shock.

To avoid electric shock, never touch the inside of this apparatus.
Only a qualified technician should open this apparatus.

Do not touch the power cord with wet hands.
- There is a danger of electric shock.

Plug the power cord firmly into the power outlet.
- Failure to do so may cause fire hazard.

Do not unplug the power cord by pulling the cable only.
- If the cord is damaged, it may cause electric shock.

If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.

Be sure to pull the power plug out of the outlet if the product is to remain unused or if you are to leave the house for an extended period of time.
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.

Be sure to contact an authorized service center, when installing your product in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc.
- Failure to do so may cause serious damage to your product.

Do not allow children to hang onto the product.

Store the accessories (battery, etc.) in a location safely out of the reach of children.

Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.

Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.

Make sure to pull out the power cord from the outlet before cleaning the product.

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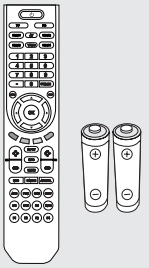
Getting Started

Unpacking

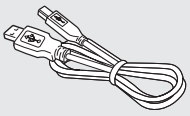
The following items are included in your product box.

IEB
(Interactive Electronic Board)

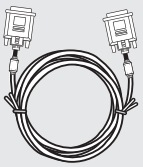
AC Power Code



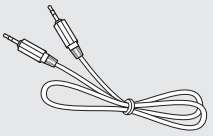
Remote Control with Batteries



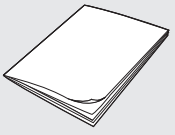
USB Cable



D-SUB Cable



Audio Cable



User's Manual

1.5mm Hex Key
Driver

The illustrations may differ slightly from the items shipped with your product.

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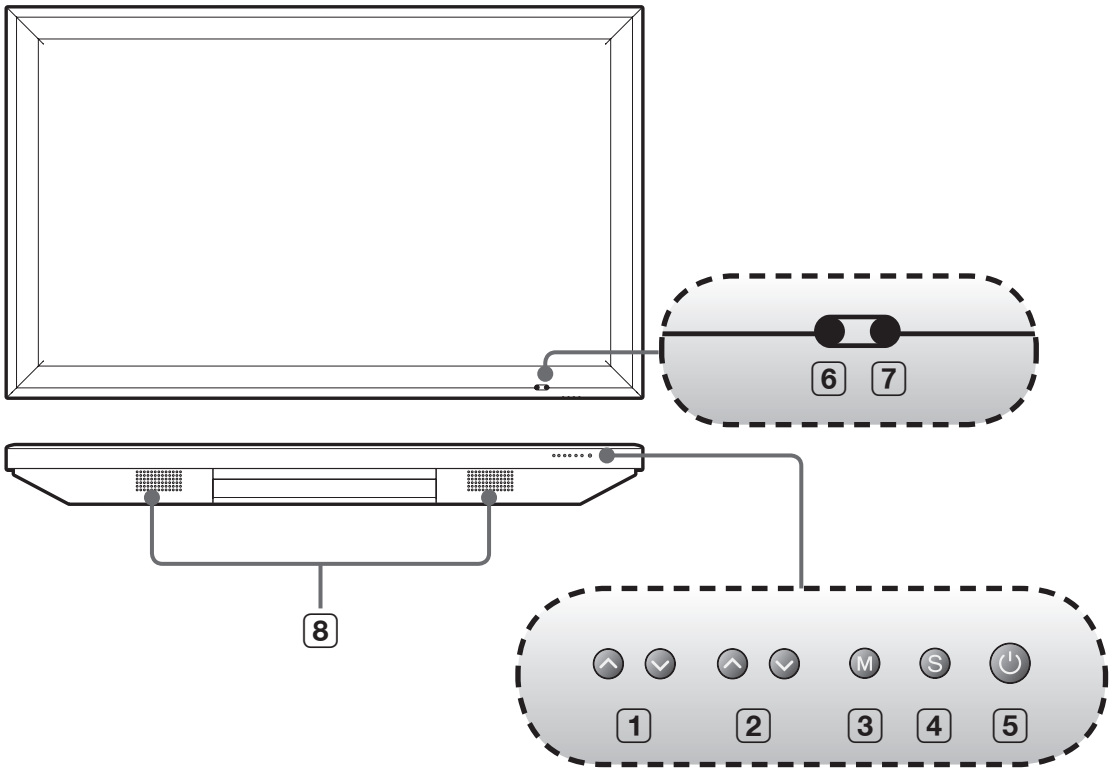
Viewing the control panel



1	**VOL ▲/▼**	Adjusts the volume. In the menu screen, adjust menu settings.
2	**PR ▲/▼**	Selects a menu item.
3	**MENU**	Displays a menu.
4	**INPUT**	Displays all the inputs.
5	**Standby**	Toggles between normal and standby modes.
6	**Power LED**	Blue: In power on mode. Red: In standby mode.
7	**Remote control sensor**	Aims the remote control towards this spot on the IEB.
8	**Speaker**	

The illustrations may differ slightly from the items shipped with your product.

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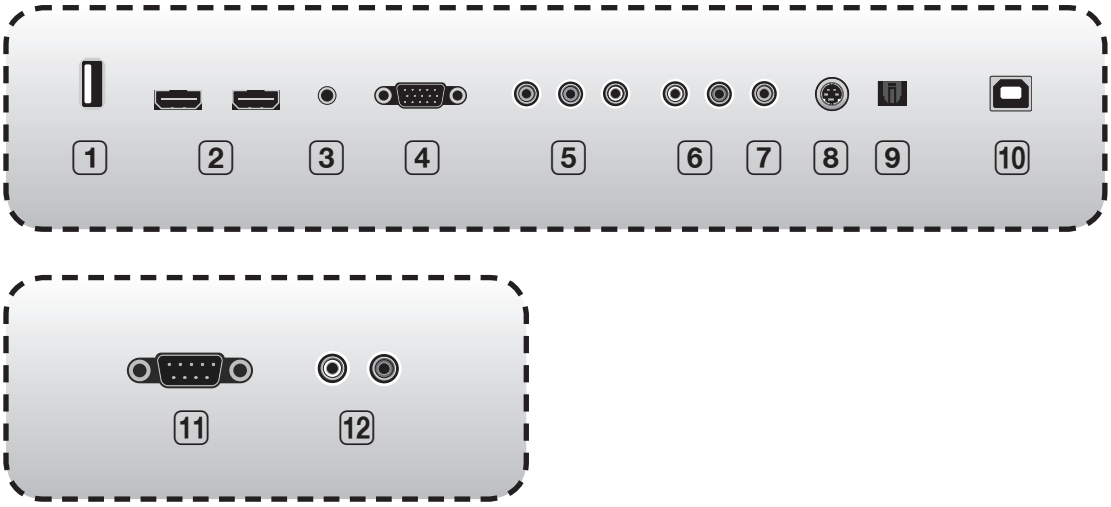
Viewing the connection panel



1	**USB**	Connect USB memory for MP3 or JPEG.
2	**HDMI**	Connect an HDMI device to this jack.
3	**PC Audio**	Audio input for PC.
4	**PC**	Connect a video from a computer to this jack.
5	**Component**	Connect a component video device to this jack.
6	**Audio**	Audio input for component, video and S-Video.
7	**Video**	Connect a video device to this jack.
8	**S-Video**	Connect a S-Video device this jack.
9	**Digital Audio output**	Optical digital audio output.
10	**Sensor USB**	Connect PC USB for touch screen.
11	**RS232C**	Connect the controller.
12	**Audio output**	Connect to external audio amplifier.

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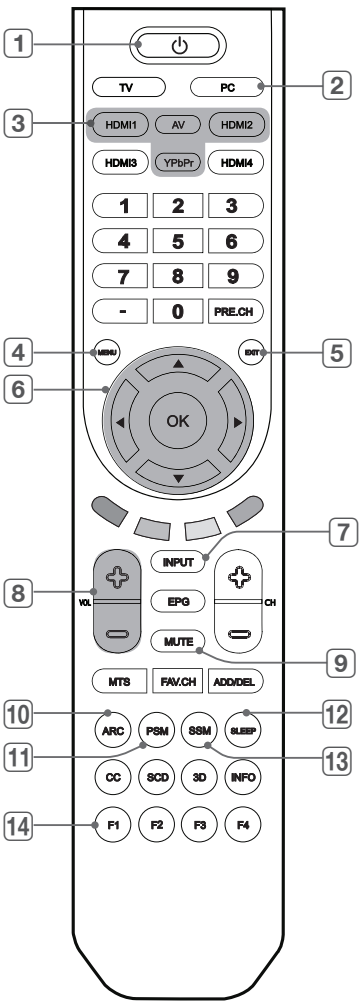
Viewing the remote control



1	**POWER** Press to turn the IEB on and off.
2	**PC** Press to select PC input.
3	**HDMI 1, 2** Press to select HDMI 1, 2 input. **AV** Press to select AV input. **YPbPr** Press to select Component input.
4	**MENU** Press to display the on-screen menu.
5	**EXIT** Press to exit the current menu.
6	**OK** Press to accept your selection or display the current mode. **▲/▼/◄/►** Press to select on-screen menu items or change menu values.
7	**INPUT** Press to display a menu of all available input sources.
8	**VOL** Press to increase or decrease the volume.
9	**MUTE** Press to temporarily switch the sound off.
10	**ARC** Press to adjust the screen size.
11	**PSM** Press to change to a preset picture mode.
12	**SLEEP** Press to select a preset time interval to automatically shut the IEB down.
13	**SSM** Press to change to a preset sound mode.
14	**F1** Press to freeze the screen picture.

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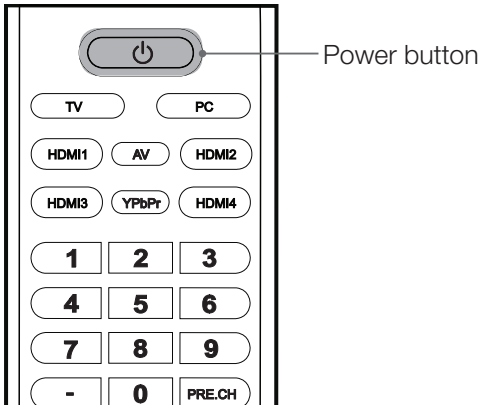
Basic Functions

Turning on/off your IEB

Standby Setup: The AC power cord must be set up and connected to get the IEB in standby mode ready to be turned on.
Press the **Power** button on the front panel to make the IEB go into standby mode.

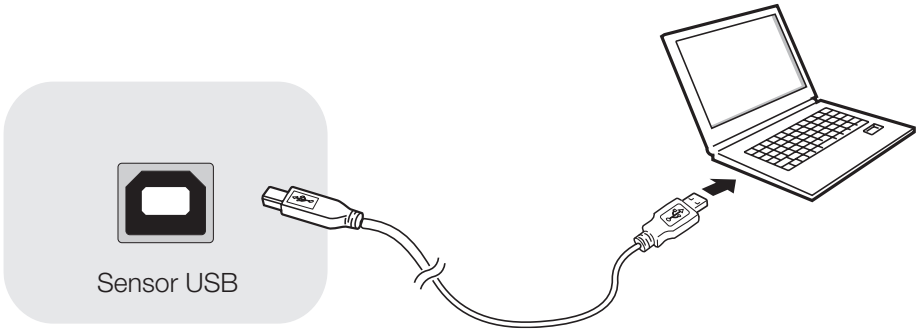
1 If the TV is in standby mode, press the **Power** button on the remote control or IEB itself to turn the IEB on.



2 Press the **Power** button again on the remote control or the IEB itself to turn the IEB off.

Using the touch sensor

To operate the touch sensor, connect the USB cable from a computer to the Sensor USB, and then turn on the computer.



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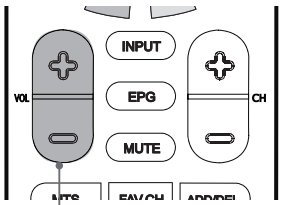
Adjusting a volume level

Press the **VOL +/-** button to adjust a sound level.

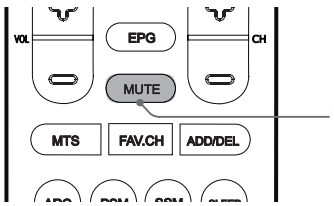
- Volume level: 0 ~ 100



VOL +/- button

Mute function

You can mute the audio sound.



MUTE button

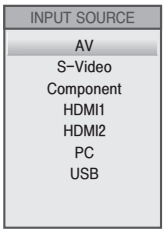
1 Press the **MUTE** button on the remote control to temporarily cut off the sound.

2 When mute is on, press the **MUTE** button again on the remote control to play the audio.

Selecting a input mode

You can change the input mode.

1 Press the **INPUT** button to display inputs.



2 Press the ▲/▼ button on the remote control to select a input mode.

3 Press the **OK** button to accept your selection.

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Picture Control

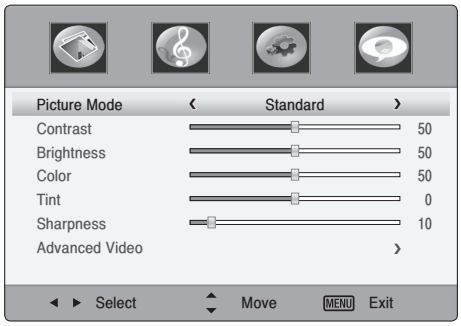
Adjusting picture mode

Picture menus adjust the IEB for the best picture appearance.

1 Press the **MENU** button to display the main menu.

2 Press the ◄/► button to select the Picture menu, and then press the **OK** button.

3 Press the ▲/▼ button to select the desired picture option.
(**Picture Mode**, **Contrast**, **Brightness**, **Color**, **Tint** or **Sharpness**)



4 Press the ◄/► button to make appropriate adjustments.

5 Press the **EXIT** button to return to IEB viewing or press the **MENU** button to return to the previous menu.

Picture Mode items

Picture Mode
Select a preset Picture Mode (Standard, Theater, Custom, Vivid).

Contrast
Adjusts the difference between the light and dark levels in the picture.

Brightness
Increases or decreases amount of white in the your picture.

Color
Adjust intensity of all colors.

Tint
Adjust the balance between red and green levels.

Sharpness
Adjust the level of crispness in the edges between the bright and dark areas of the picture.

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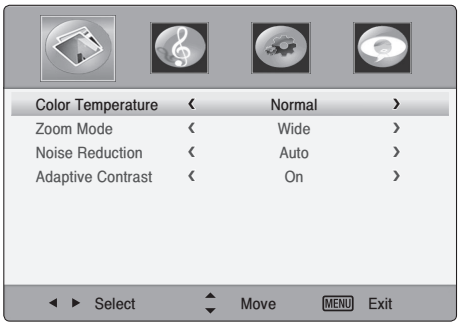
Setting advanced video

1 Press the **MENU** button to display the main menu.

2 Press the ◄/► button to select the Picture menu, and then press the **OK** button.

3 Press the ▲/▼ button to select **Advanced Video**, and then press the **OK** button.



4 Press the ▲/▼ button to select menu items.

5 Press the **EXIT** button to return to IEB viewing or press the **MENU** button to return to the previous menu.

Advanced Video items

Color Temperature
Select one of three color preset (Warm, Normal, Cool).

Zoom Mode
Select a zoom mode according to input source (Wide, Zoom, Cinema, Original, Normal).

Noise Reduction
To reduce any static and ghosting that may appear on the screen.

Adaptive Contrast
Adjust the screen contrast automatically.

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Sound Control

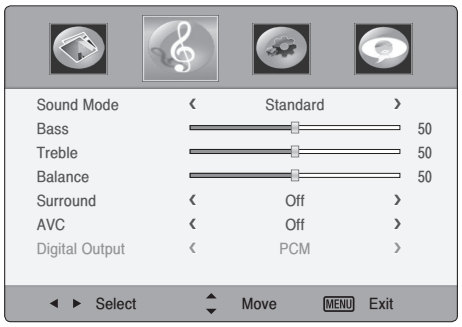
Adjusting sound mode

Sound menus adjust the IEB for the best sound appearance.

1 Press the **MENU** button to display the main menu.

2 Press ◄/► button to select the Sound menu, and then press **OK** button

3 Press the ▲/▼ button to select menu items.



4 Press the **EXIT** button to return to IEB viewing or press the **MENU** button to return to the previous menu.

Sound Mode items

Sound Mode
Select a preset sound mode (Standard, News, Music, Movie, Custom).

Treble
Adjust tones of high frequency.

Bass
Adjust tones of low frequency.

Balance
Adjust the balance between the right and left speakers.

AVC
Equalize the volume level on each program.

Digital Output
Select the Digital Audio output format from the options PCM or RAW.

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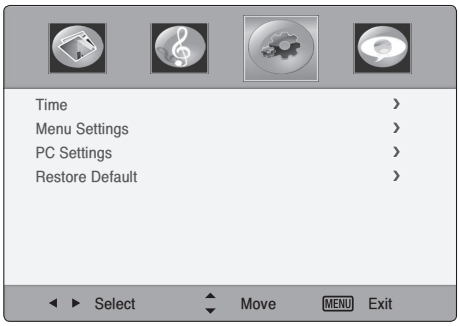
Setup Control

Using the Setup menu

1 Press the **MENU** button to display the main menu.

2 Press ◄/► button to select the Setup menu, and then press **OK** button

3 Press the ▲/▼ button to select menu items.



4 Press the **EXIT** button to return to IEB viewing or press the **MENU** button to return to the previous menu.

Setup items

Time
Press the **OK** button, and then press the ◄/► button to adjust a sleep timer (off, 5, 10, 15, 30, 45, 60, 90, 120, 180, 240 minutes).

Menu Settings
Press the **OK** button, and then adjust the transparency of main menu (0, 25, 50, 75, 100%), and select menu language.

Restore Default
Restore the OSD values from user's to defaults.

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PC Settings

Adjusting the PC screen

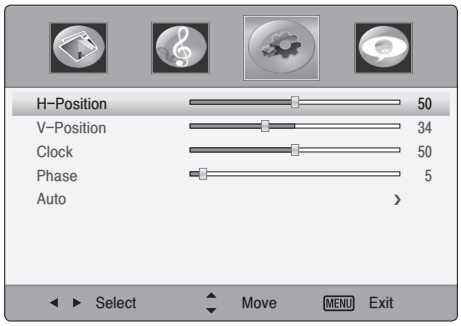
1 Select the input for PC.

2 Press the **MENU** button to display the main menu.

3 Press the ◄/►button to select the Setup menu, and then press the **OK** button

4 Press the ▲/▼ button to select **PC Settings**, and then press the **OK** button.

5 Press the ▲/▼ button to select the items.



6 Press the **EXIT** button to return to IEB viewing or press the **MENU** button to return to the previous menu.

PC Settings items

H-Position and V-Position
If the screen is skewed towards a specific direction, try to adjust the position.

Clock
This function will remove or reduce flickering on the screen, unstable boundaries, unnecessary noise or blurring of the screen.

Phase
If adjusting the frequency does not remove unnecessary noise, adjust the phase.

Auto
The Position, Clock and Phase values are adjusted automatically.

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Notes

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Touch Sensor

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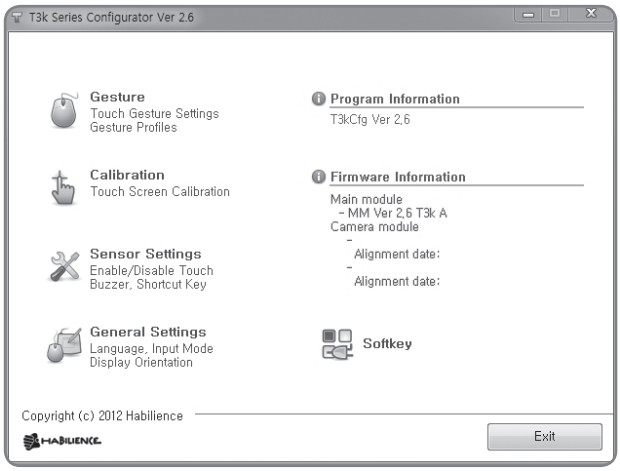
Introduction

This document[1] is the user's manual of the settings software for T3500 touch sensors.

Program	T3kCfg.exe
Operating System	Microsoft Windows XP (32 & 64 bit), Vista (32 & 64 bit), and 7 (32 & 64 bit), Mac OSX, Linux
Minimum Requirements	Intel Celeron 333 MHz Processor
Resolution of 1024 x 768	
Prerequisites for Running T3kCfg	

Prerequisites for Running T3kCfg

The following is the window that comes up when one launches the T3kCfg.exe program. The left side is where buttons for setting the mouse, calibration and settings are located. Select each to go to the appropriate menus. One can see from the lower right hand side of this window that the software has gotten information from the T3xxx hardware.



The following is the user interface for Mac OS X.

[1]This document is subject to change without prior notice.

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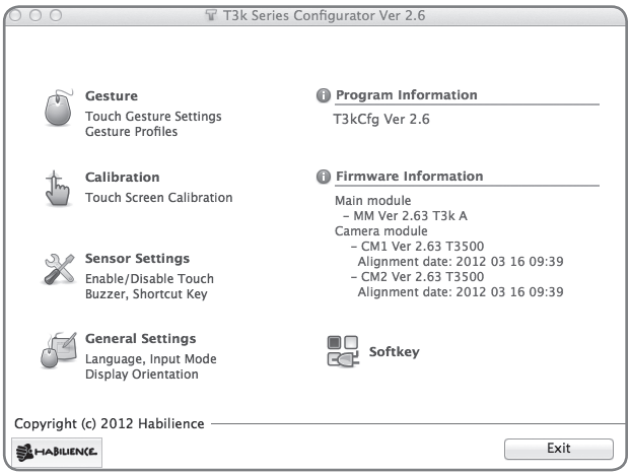
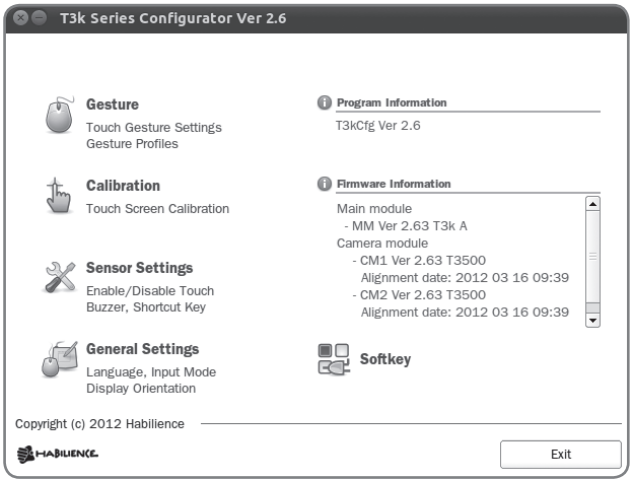


The following is the user interface for Ubuntu, a Linux distribution by Canonical.



The following is some of the features of the T3kCfg program.

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Tabbed Menu

When one goes into one of the Mouse, Calibration, Sensor Settings, or General Settings menus, one is provided with five different buttons (six if one has Softkey installed) on the top right whereby the selection of which will give the user access to its specific settings.

1	**Home** Access to the menus in a wider named format. One can also see the firmware version of the device.
2	**Gesture** Setting the Touch Gesture Profiles.
3	**Touch Coordinate Calibration** To calibrate the touch coordinates and settings of the area to touch.
4	**Sensor Settings** Enabling and disabling touch functionality; turning the sound on and off; shortcut keys for calibrating and enabling / disabling touch; and a diagnostic tool for the sensors.
5	**General Settings** Language settings and the input mode for touch functionality.
6	**Softkey Settings (Optional)** Settings for the user defined Softkeys. (Softkeys need to be installed for this to work)

Control Buttons

On the bottom of each menu window are keys to go to the default, to refresh the settings from the sensors, and terminate the program.

Default	Change values to the manufacturing defaults.
Exit	Terminate the program.

The following is the detailed explanation of each function of the T3kCfg software.

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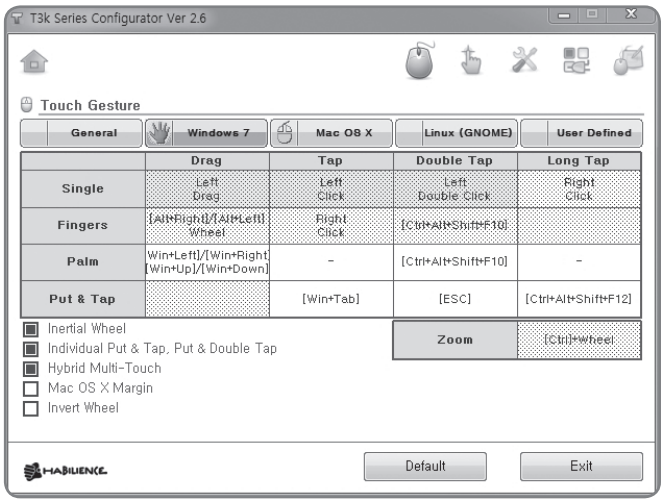
Gesture

Touch Gesture

Selecting “Gesture” from the above list provides one with the following screen. Here, one can make a connection between a certain touch gesture, an action performed with a finger, multiple fingers, or a palm, or to a certain mouse button, a keyboard button, or a combination of a mouse and keyboard buttons.

The T3k Touch Sensor classifies gestures into a bundle and this bundle is what we call a Profile. There are five Profiles in all and users can select which Profile to use thru Touch Gesture.



On top of the Touch Gesture window, the name of each Profile is listed from left to right. Before each Profile is a check box. One can check the Mac OS X Profile to select it but also view what the General Profile has to offer.

The example above shows the General Profile. On the horizontal upper strip are the actions, whether it is a drag, a tap, a double tap, or a lengthy tap. On the left, vertically, is the type, whether it is a single finger, multiple fingers, the whole hand or a put & tap. When one combines the above, one comes up with the functions of the mouse i.e., left-click and drag, right click, or left double click.

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On the bottom, there are additional features such as Inertial Wheel, Individual Put & Tap, Put & Double Tap, Hybrid Multi-Touch, Mac OS X Margin, and Invert Wheel.

Touch Types that T3k Touch Sensor Recognizes

Single Touch	Touch the screen via a single finger.
Fingers Touch	Touch the screen with multiple fingers.
Palm Touch	Touch the screen with the palm of one's hand.
Put & Tap	Place one finger on the screen and tap with another finger.
Zoom	Place two fingers on the plane of the screen and move them farther apart or closer together. Zoom-in: Move the fingers farther apart. Zoom-out: Move the fingers closer together.

Touch Actions that T3kCfg Touch Sensor Recognizes

Drag	Place the pointer on the screen and move.
Tap	Press and let go of the screen in a quick fashion.
Double Tap	Press and let go of the screen twice in a quick fashion.
Long Tap	Press and let go of the screen but in slower fashion.

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Selecting Profiles

The selection of profiles can be accomplished by choosing the appropriate Profile from the top of the Touch Gestrure menu.

There are two modes of selecting a profile. One is by the Mouse and the other is by the Hand. One selects the Mouse when one is in the Mouse input mode and the Hand when one is in the Multi-touch input mode. The input mode can be selected in General Settings. Refer to 5.3 Touch Input Mode.

is for the Mouse mode of input.

is for the Multi-touch mode of input.

General Profile:
The Profile that provides simple and basic touch functionality. Good for single touch functionality but also supports some gestures inherent in T3k Touch Sensors.

Windows 7 Profile:
The profile best suited for the Microsoft Windows 7 operating system. Supports Windows 7 multi-touch gestures. For example, the shortcuts for the Snap functionality are applied in this profile.

Mac OS X Profile:
Profile best suited for use on a Mac OS X. This is also where the Mac OS X Margin comes in handy.

Linux (GNOME) Profile:
Suited for the Linux operating system, especially those using the GNOME user interface. One can access the multiple virtual desktops that Linux is good at. There are also gestures to open a terminal.

User Defined Profile:
A profile that the user can manipulate to do what the user needs.

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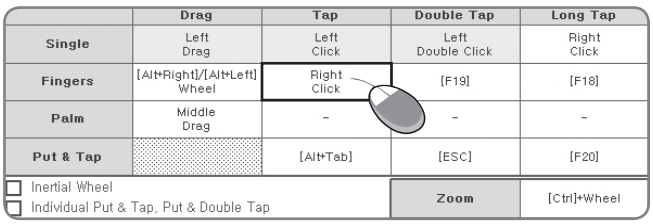
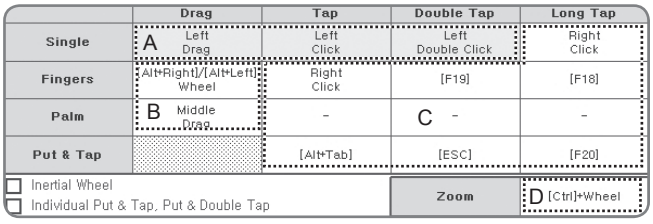
Editing Profiles

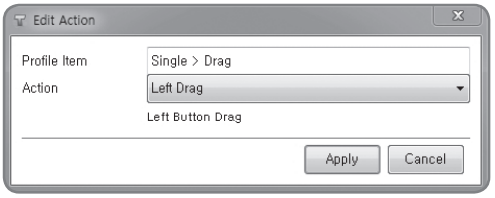
After selecting a profile, one can go and edit parts of the profile by clicking a type and an action.



There are four different editable types in each profile and each item has a different set of changes one can make. Each is explained below.



A. Editing the Single > Drag, Tap, and Double Tap type



There are limited actions that one can select from each Profile. The following is the detailed editable actions present for the Single > Drag, Tap, and Double Tap type.

Type	Actions	Explanation
Single > Drag	(Disabled)	-
	Left Drag	Press the left mouse button and drag
Single > Tap	(Disabled)	-
	Left Click	Click the left mouse button
Single > Double Tap	(Disabled)	-
	Left Double Click	Double click the left mouse button

Caveat: Selecting Disabled for all Single > Drag, Tap, and Double Tap may make the touch functionality not work properly.

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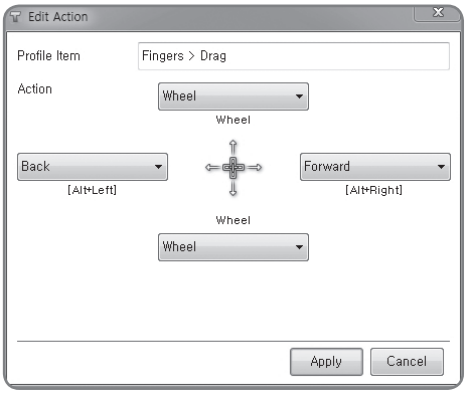
B. Editing the Fingers, and Palm > Drag Functionality



Can edit each or all the directional keys of forward, back, right, and left.

The following is the detailed editable actions for the Fingers and Palm > Drag type.

Actions	Explanation
(Disabled)	-
(User Defined)	User defined keys
(Function key)	Function keys from F1 to F24
Left Drag	Press the left mouse key and drag
Right Drag	Press the right mouse key and drag
Middle Drag	Press the middle mouse key and drag
Wheel	Move the mouse wheel forward or backward
Ctrl+Wheel	Press the Control key and move the wheel
Forward	Press the Alt key and the left arrow key
Back	Press the Alt key and the right arrow key

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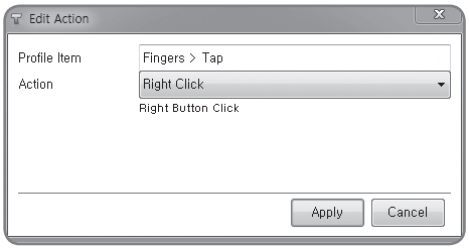
C. Editable Actions for Fingers > Tap. Double Tap, and Long Tap



The following is the editable actions for the Fingers > Tap, Double Tap, and Long Tap type.

Actions	Explanation
(Disabled)	-
(User Defined)	User defined keys
(Function keys)	Function keys from F1 to F24
Left Click	Click of the left mouse button
Right Click	Click of the right mouse button
Middle Click	Click of the middle mouse button
Forward	Pressing of the Alt key and right arrow key (Move forward on Windows Explorer or Internet Explorer)
Back	Press the Alt key and the left arrow key (Move backward on Windows Explorer or Internet Explorer)
Task Switching	Switch from the many tasks present on one's desktop.
Task Switching (Aero mode)	Switch from the many tasks present on one's desktop but with Aero functionality turned on. (Aero functionality needs to be turned on for this to work on Vista or above operating system.)
Task Manager	Opens the Task Manager
Windows Explorer	Opens the Windows Explorer
Minimize all	Minimize all the tasks at hand and view the background image on one's desktop.

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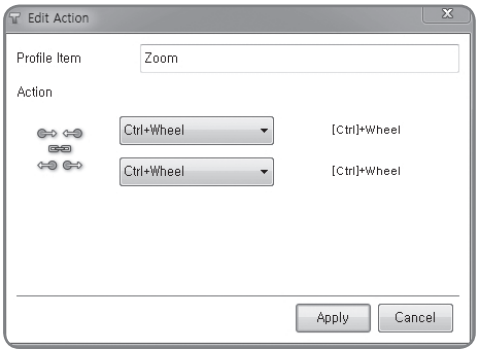
D. Editing the Zoom functionality



One can edit each or both the zoom-in and zoom-out functionality.

Below are the detailed editable actions for the Zoom type.

Actions	Explanation
(Disabled)	-
(User Defined)	User defined keys
(Function Key)	Any function keys from F1 to F24
Wheel	Mouse wheel
Ctrl+Wheel	Pressing of the Ctrl key and turning the mouse wheel. (Programs in which the Ctrl+Wheel is recognized such as Windows Explorer, Internet Explorer, and Microsoft Word)

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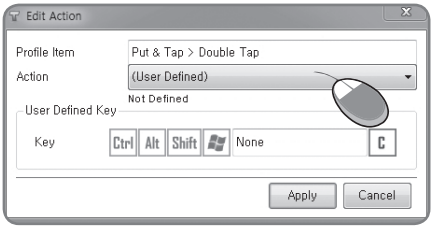
Entering User Defined Keys

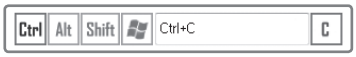
User Defined Keys and Function Keys are reoccurring actions from the above four examples. Below are ways to configure these two items.

Editing a User Defined key is as follows.



Choose the Ctrl/Alt/Shift/Win buttons and type in the character that one wants to select a combination of. (The C key is the Clear key.)

Example: Ctrl + C



Example: Window key

Example: Ctrl + Shift + Esc

One can simply type in the sequence or select from above.

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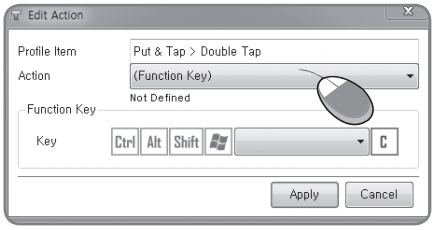
Entering Function Keys

Entering the function keys to edit a profile is as follows.



One can key in the sequence on the keyboard or select from the Ctrl/Alt/Shift/Win keys and press the function key on the keyboard. (C is the Clear key)

Example: Ctrl + F1

Example: Ctrl + Alt + F3

Example: F20

Expanding the Profiles

On the bottom of the Mouse menu, is four features that are related to each Profile. They go on and off as one goes from General to Windows 7 to Games, etc. One can also turn them on and off by toggling them.

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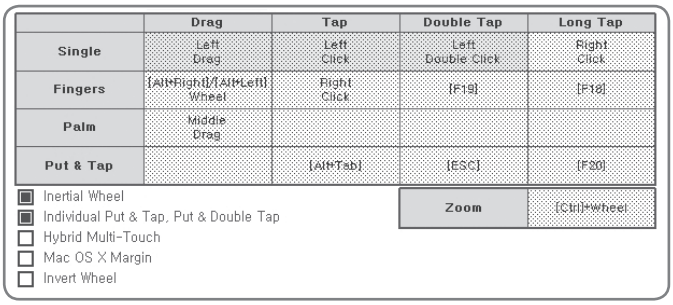
Inertial Wheel:
On top of the mouse wheel gesture, this feature adds inertia to it. For example, when one presses multiple fingers onto the screen of a document or a Web page, and move up or down in a quick fashion, consecutive pages keep turning as if the wheel had inertia.

Individual Put & Tap, Put & Double Tap:
This setting is to set Put & Tap and Put & Double Tap as mutually exclusive features, i.e. when Put & Tap is working, Put & Double Tap cannot work and vice versa. When off, they are not mutually exclusive.

Hybrid Multi-Touch:
When the input mode is set to multi-touch Windows 7 mode, (refer to 5.3 Touch Input Mode), one cannot use all of the gestures specified in a profile. If the Hybrid Multi-Touch is selected, in addition to the gestures provided by the Windows 7 operating system, a subset of gestures inherent in T3k is applied.

Mac OS X Margin:
When using the Mac OS X, there is a difference in the coordinates of the Mac against that of a PC. Selecting this item will erase this difference. Only to be used on a Mac OS.

Invert Wheel:
To reverse the way that the mouse wheel behaves.



As shown above, when one is in Multi-Touch Mode, one does not have access to any functionality inherent in T3k Touch Sensors. Windows 7s multi-touch takes over here.

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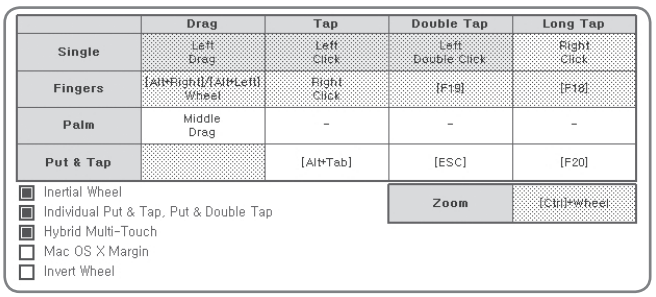
Gesture



Shown above is the same Multi-Touch Mode but with Hybrid Multi-Touch turned on. As one can see, the user can drag, tap, double-tap, and long-tap with the palm in addition to the Windows 7's multi-touch features.

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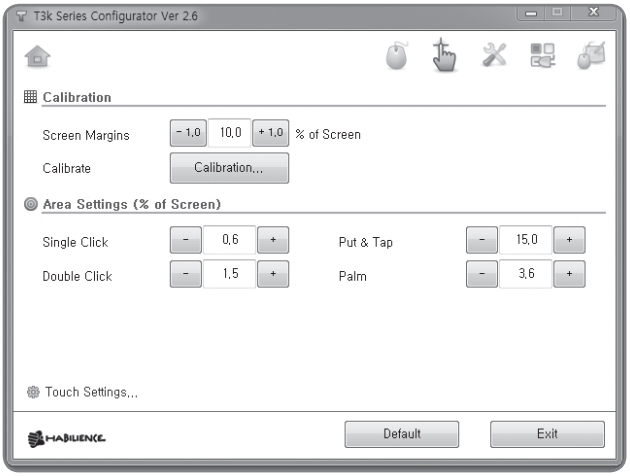
Calibration

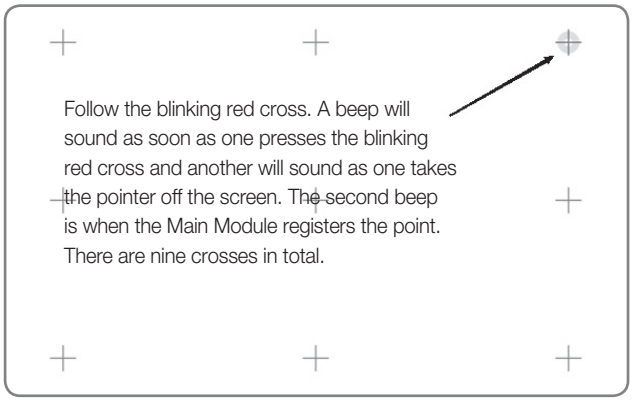
Calibration is where one goes if the screen size has changed due to a change in resolution of the computer screen or when something happens to the sensors and they are not aligned properly. Usually, when this happens, the position of the mouse and the pointer do not coincide. To remedy this, one needs to calibrate the touch coordinates.

There are two ways of calibrating the touch coordinates. One is thru the use of the Calibrate key in the Calibrate window. Another is thru the special key sequence set in the Sensor Settings window of the T3kCfg.exe program. When one uses the former, one is taken to the Calibration screen below. When one uses the latter, the mouse pointer changes positions to indicate where to place one's pointer.



Calibration

If the Calibrate button is pressed, the following calibration window appears. Click on each blinking red cross.


Follow the blinking red cross. A beep will sound as soon as one presses the blinking red cross and another will sound as one takes the pointer off the screen. The second beep is when the Main Module registers the point. There are nine crosses in total.

There are four crosses under Firmware rev 2.5 and above.

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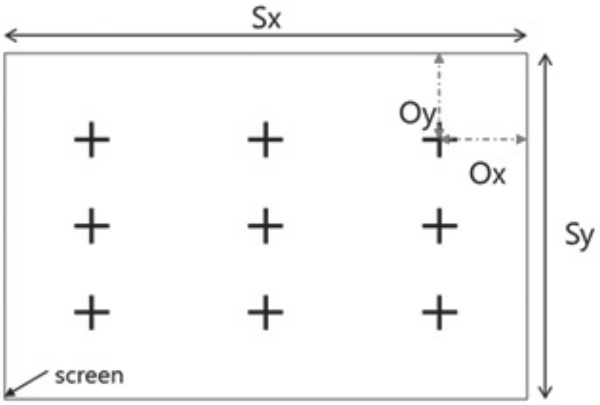
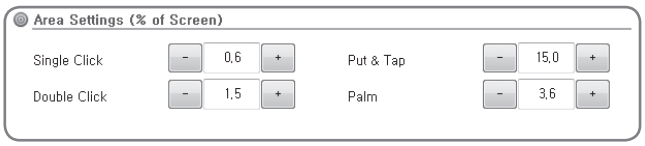


Screen Margin = Ox / Sx * 100 = Oy / Sy * 100

Area Settings

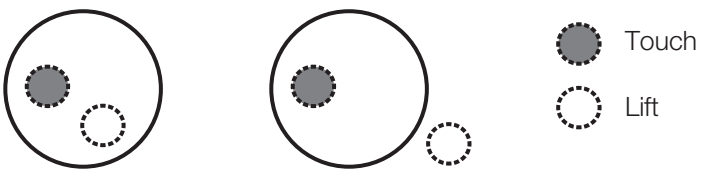
This is to place a limit on the area for a single click, double click, Put & Tap, and the palm. Changing values in the Area Settings may cause the Tap, Double Tap, Put & Tap, or the Palm functionalities to malfunction. Use it at one's own discretion.



When a person taps on a surface, there are two things that she does. One is that she touches the surface or simply Touch, and the other is she lifts the finger from the surface or Lift.

Click Area:
This is the area where the user Touches and Lifts.
If the area where the user Touches and Lifts is not within the bounds set, touch is not recognized.

A. Valid Click B. Invalid Click



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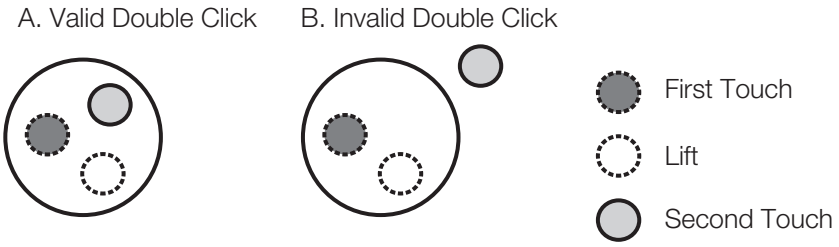
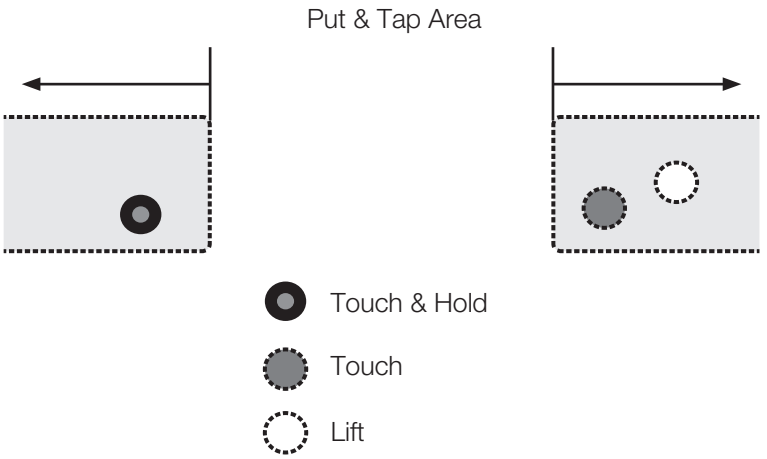
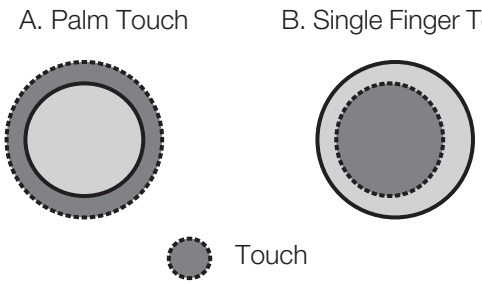
Double Click Area:
This is the area where the user Touches, Lifts, and Touches again.
If the area where the user Touches, Lifts, and Touches is not within the bounds set, the double click is not recognized.



Put & Tap Area:
This is the minimum percent area within which the Put & Tap action should be performed.
If the area in which one performs the Put & Tap is less than the limits of the box, Put & Tap is not recognized.



Palm Area:
This is the area that the palm is recognized. If the surface is any smaller than this, it recognizes it as a finger or multiple fingers.



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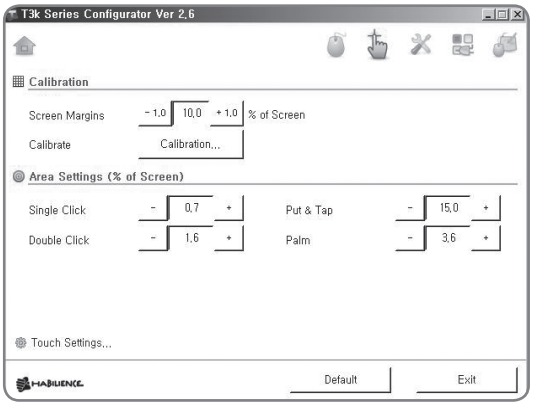
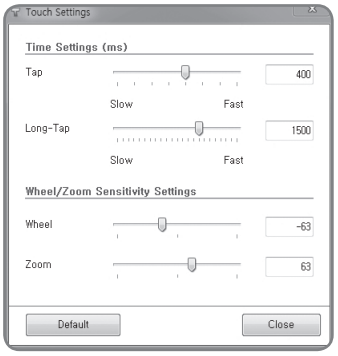
Touch Settings

When one goes down to the bottom of the Calibration settings, one will see Touch Settings.



Click on it and one should have the following window.



Time Settings

This is how fast or how slow one touches the screen with one's fingers. The top is for the Tap and the bottom is for the Long Tap. The units for both are in milliseconds.

Wheel / Zoom Sensitivity Settings

Mouse Wheel:
This is the sensitivity setting for the wheel. If it is on the positive side, as the pointer goes down, the page goes down with it. If on the negative side, the page goes down as the pointer goes up. The closer it is to 0, the less receptive it is to the touch of the wheel. The farther it is to 0, it is quicker to the touch.

Zoom:
This setting sets the zoom sensitivity of the sensors. As the settings for the mouse wheel, it is more sensitive when it is farther away from 0 and less sensitive when it is closer. The functionality may change as one goes from positive to negative depending on the program.

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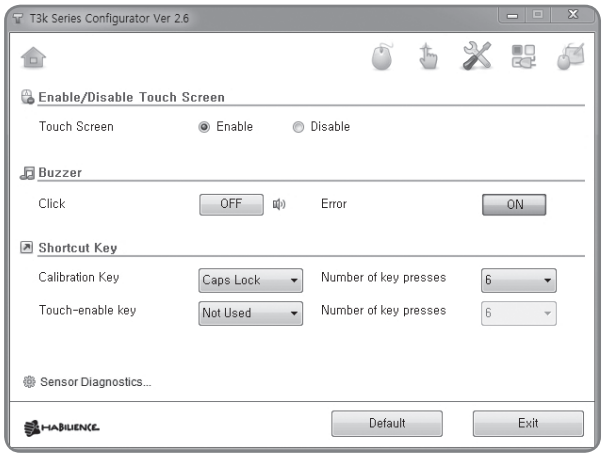
Sensor Settings

The Settings window is divided into Enable/Disable Touch Screen, Buzzer and Shortcut Keys.



Enable/Disable Touch Screen

The purpose for this is to enable/disable the touch screen. When enabled, the device responds to touch. When disabled, the device does not respond to touch. One would need a mouse/ keyboard to interact when disabled.

When one presses the Disable button, the following pop-up appears. Press the Timer Button to disable touch. Otherwise, it reverts back to Enabled.

This is to limit the disabling of the touch feature when there is no other pointing device present. To continue, one needs another pointing device (for example a mouse) to click the timer button.

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Buzzer

This is where one can turn on and off the sound when there is an error with the installation, or when a click is made. It is also the place to go if one would like to listen to the sound when a click is made.

Click: For turning on and off the beep when a mouse is clicked or a touch occurs.
Error: For turning on and off the beep when an error has occurred. An example would be disconnection of the camera sensor.

Shortcut Keys

Calibration Key

One can use the Scroll Lock, Num Lock, or Caps Lock keys and the Number of Key Presses on the right to calibrate the device. Press the Scroll Lock, Num Lock, Caps Lock or the Escape key once to exit out of the Calibration screen.

In the above figure, the Calibration key is set up so that when the user presses the Caps Lock key six times, the pointer goes to appropriate position and one is in the Touch Coordinate Calibration mode. Press on the Caps Lock key once to exit out of the Calibration mode

Touch-enable Key

This is the Enable/Disable Touch shortcut key. One can use the Scroll Lock, Num Lock, or Caps Lock keys to enable or disable the touch capabilities of the device.

In the above example, pressing the Scroll Lock button six times disables touch. Pressing it again six times enables it.

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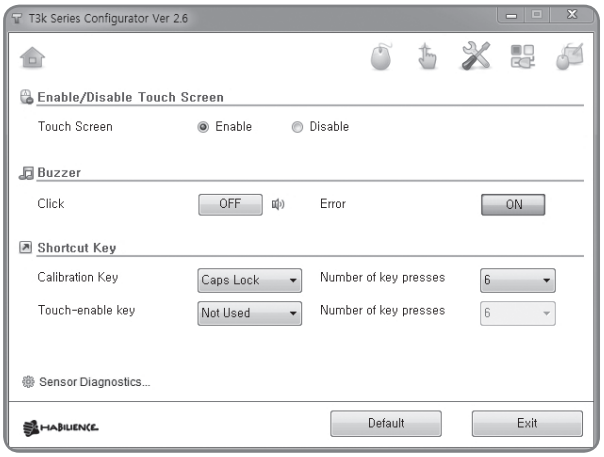
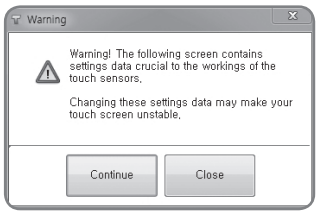
Sensor Diagnostics

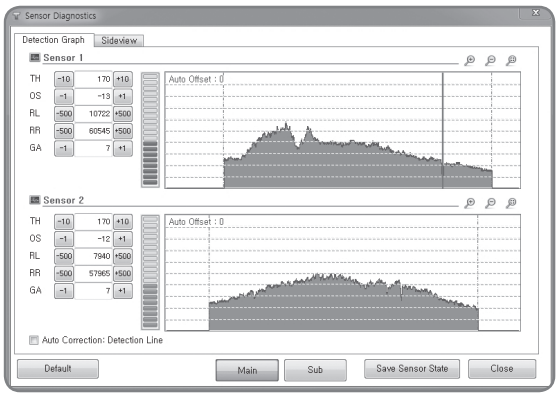
This is where the user goes if the sensor does not work properly.



When one selects this item, a pop-up window warning of the danger of changing data on the following screen comes up. Please use the default settings and follow the technician's instructions.


Warning
Warning! The following screen contains settings data crucial to the workings of the touch sensors,
Changing these settings data may make your touch screen unstable,
Continue
Close

The following two figures are the Detection Graph and the Sideview tabs that appears when one presses the Continue button above.



The Default key changes the settings to the manufacturer's defaults. The Refresh key gets fresh data from the sensors. The Close key closes the screen and one is back in the T3kCfg window.

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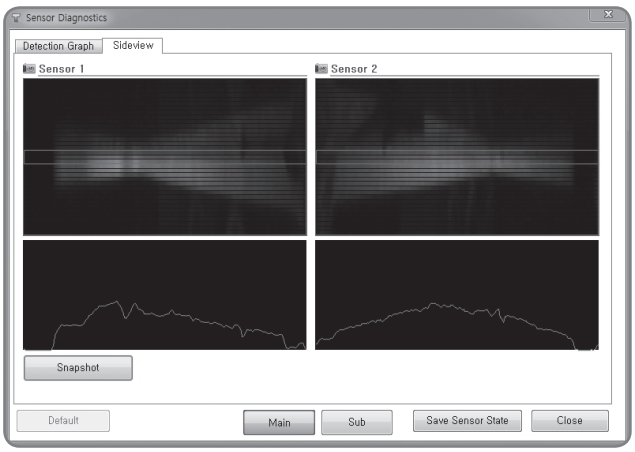
Sensor Settings



Open the Sideview screen of the Sensor Diagnostics window by clicking on the Sideview tab. One will be provided with a snapshot of the Sideview. One can press the Snapshot button on the lower left to refresh these images.

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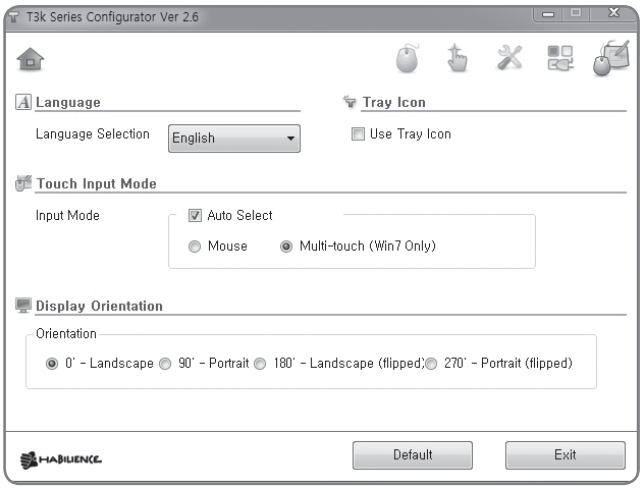
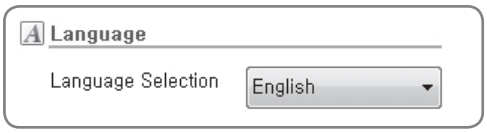
General Settings

This is the where one can set the language, tray icon settings, and the touch input mode.



Language

This is for selecting the language. One can select from English, Korean, Traditional / Simplified Chinese, French, Spanish, Portuguese and Japanese.



Tray Icon

This is the setting to use the tray icon to store profile mappings. If selected, one can change from General, Windows 7, Mac OS X, Linux (Gnome), or User Defined from the tray icon rather than opening T3kCfg.exe.

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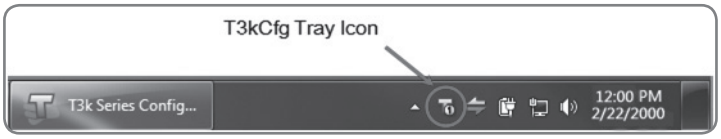
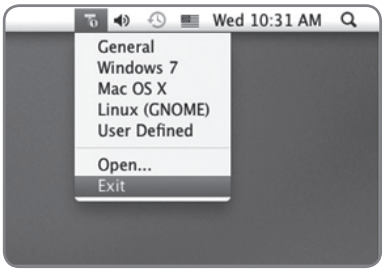
General Settings

Select Use Tray Icon on the General Settings menu and the following appears on the Taskbar of Microsoft Windows 7.

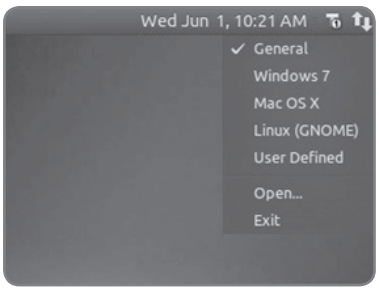


When the user selects Use Tray Icon, the program does not terminate when one presses Exit but stays on until she selects Exit from the Taskbar.

The following is what appears on Mac OS X.



Here is how it appears on Ubuntu 10.10 (Maverick Meerkat).



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Features of the Tray Icon

a. Quick Change Between Profiles
One can change between Profiles from the Tray Icon.

From the Tray Icon, one can easily change from the five Profiles as well as open up or terminate the T3kCfg program.

b. T3k Touch Sensor Status
By using the Tray Icon, one can also check the status of the T3k Touch Sensor.

The sensor is disconnected.

The sensor is connected and using the number 2 Windows 7 Profile.

Touch Input Mode

The T3k Touch Sensor supports two input modes, mouse and multi-touch.

Mouse:
This mode is for basic mouse input. Using the Mouse mode, one can use all the gestures prevalent with the T3k Touch Sensor. Even if the operating system does not support multi-touch, one can use T3k Touch Sensor gestures.

Multi-Touch:
This mode is for operating systems that already support multi-touch, i.e. Windows 7. When one selects Multi-Touch mode, it is the operating system that recognizes gestures. This mode does not support the inherent gestures of the T3k Touch Sensor. [2]

[2] One can go to the Mouse Profile and select Hybrid Multi-Touch to partially allow T3k Touch Sensor gestures. Refer to 2.1.5 Expanding the Profiles.

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If one selects Auto Select, the operating system selects the input mode depending on the OS.

Operating System	Supported Input Mode	Auto Select
Linux	Mouse	Mouse
Max OSX	Mouse	Mouse
Windows XP	Mouse	Mouse
Windows Vista	Mouse	Mouse
Windows 7	Mouse, Multi-Touch Input	Multi-Touch Input
Android*	Mouse, Multi-Touch Input	Multi-Touch Input

Positioning of the Monitor

This is for the rare cases that one has set the calibration in a certain position but would like to change the position. The calibration data is automatically translated to the desired position.

Horizontal

Vertical
(90° Clockwise)

Horizontal
(180° Clockwise)

Vertical
(270° Clockwise)

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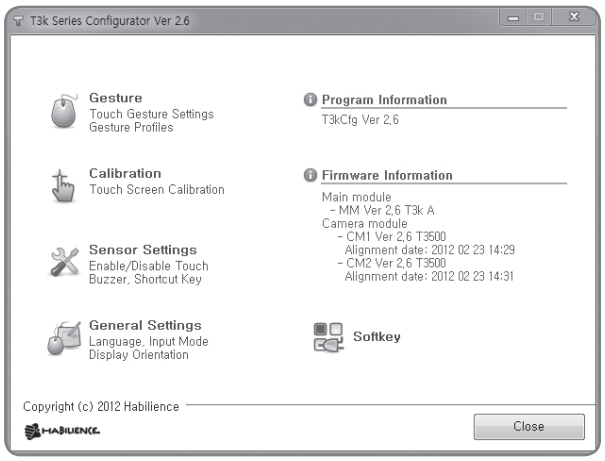
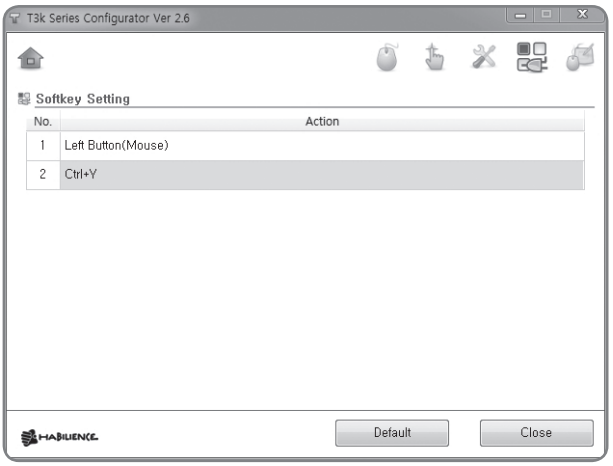
Softkey (Optional)

This is an optional feature present in some T3k wide screen versions. It is basically a set of virtual buttons that one can set to open an annotation program, start browsing the Internet, or disable touch. Initially, they are set by the manufacturer. When the Softkey functionality is present, the user can manipulate some features to one's own liking.

For users that have this option, they will see an icon to the lower right of the Main screen of T3kCfg.



Press on it and one will be presented with the following menu.



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Softkey Settings

The following is a list of user settable items.

Item	Explanation
(Disabled)	-
(User Defined)	User Defined key
(Function Key)	Function keys from F1 to F24
(Mouse)	Mouse input
Escape key	Esc key
Task Switching	Switch from the many tasks present on one's desktop.
Task Switching (Aero Mode)	Switch from the many tasks present on one's desktop but with Aero functionality turned on. (Aero functionality needs to be turned on for this to work on Vista or above operating system.)
Task Manager	Opens the task manager.
Windows Explorer	Opens the Windows Explorer.
Minimize All	Minimize all the tasks at hand and view the background image on one's desktop.

Input User Defined Key

From the Softkey Settings menu, select the number one would like to use and choose (User Defined).

One can choose from the keys Ctrl/Alt/Shift/Win buttons and press the specific key to make a user defined combination. (The C is the Clear key.)

Input the Function Key

From the Softkey Settings menu, select the number one would like to use and choose (Function Key).

One can choose from the keys Ctrl/Alt/Shift/Win buttons and/or select from F1 to F24 from the Combo Box.

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Mouse Input

From the Softkey Settings menu, select the number one would like to use and choose (Mouse).

One can choose from the Ctrl/Alt/Shift/Win buttons and/or select from Left, Right, or Middle button from the Combo Box.

Mouse Combo Box:

Mouse Action	Explanation
Left Down	Press the left mouse button
Right Down	Press the right mouse button
Middle Down	Press the middle mouse button

One can select from a combination of key sequences or choose from two different states. A combination of key sequences could be from a simple Escape key, to the more complex Ctrl+C, Ctrl+V, or Ctrl+Alt+Del. The aforementioned two states are the Enable/Disable Touch and Entering/Exiting Calibration. In the above figure, one is in the process of selecting a key sequence. One already has the Ctrl key selected and is waiting for the next key. The "C" on the right of the key sequence is to clear the slate.

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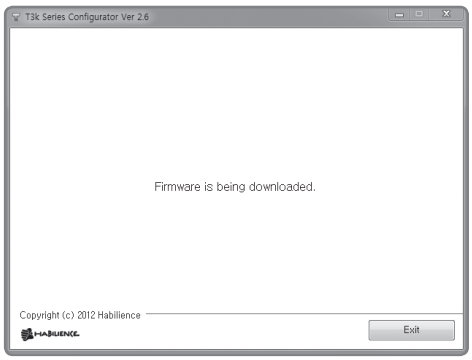
Troubleshooting

Device Not Connected

When the device is not connected to the computer in question, the following screen comes up. Check if the USB connector from the T3k Touch Sensor is properly connected to the computer.

Firmware Download

During a firmware download, one cannot set the sensor.



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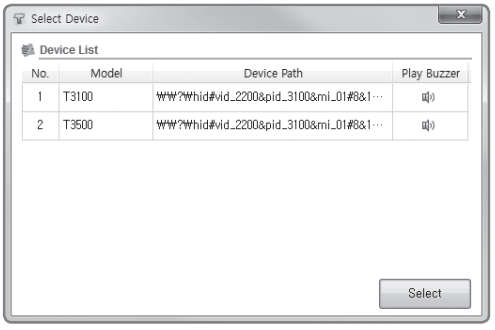
This program does not support vx.xx firmware

When the version of the software does not correspond to the version of the firmware, the following Dialog opens. It is specifying the versions of the firmware that it supports and the current version of the touch sensor's firmware.

One can change the software program and run it again, or upgrade the firmware of the touch sensors.

When More than Two T3k Touch Sensors are Connected

When more than two T3k Touch Sensors are detected, the following Sensor Selector comes up.



Select the appropriate sensor and press on Open.

Model:
The name of the T3k Touch Sensor.

Device Path:
The device path on the host computer.

Check:
Pressing the appropriate will make an alarm sound.

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Specification

Display	LCD Type	LED
	Windows Ratio	16:9
	Resolution	Full HD (1920 X 1080) / UD (3840 X 2160)
	Frequency	60 Hz
Glass	Glass Material	AG (Anti Glare)
Touch	Touch Technology	Optical
	Touch Accuracy	±3 mm (for 70” screen)
	Resolution	32767 X 32767
	Response Time	Less than 8 ms
	Response Rate	More than 125 responses per second
	Operating Temperature	0 °C to 70 °C
	IR Wavelength	850 nm
	Current Consumption (w/o IR Bar)	Typically 233 mA at 5V
	IR Bar	200 mA per meter at 5 V at highest intensity
	Touch Method	Pointer including fingers
	PC Interface	USB 1.1 compatible (full speed) using VID 0x2200 and PID 0x3100. HID compliant, Plug & Play compatible, USB2.0
	Operating Systems	Windows XP, Windows Vista, Windows 7, Linux, Mac OSX
	Software	No driver required for USB. Software provided for factory setup and for user.
	Touch Type	Multi Touch Gesture VOD consult
I/O Port	HDMI	2 Ports
	Display Port	1 port (Optional)
	D-SUB	O
	Component, Composite	O
	Speaker	2 x 10 W
	USB	JPEG, MP3
	SPDIF	O
	Sensor USB	O
	RS232C (D-sub 9 pin)	O
	Audio Line Out	O
Electrical	Power Requirement	110 ~ 220 Vac, 50/60 Hz

Specifications may change without notice to improve performance.

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Notes

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